

Claim 1 (original): A pleated shade or Venetian blind assembly capable of height adjustment, comprising, in combination:

- a) an upper elongated support,
- b) a lower elongated member that is manually adjustable up and down,
- c) primary lines extending through shade pleats or blind slats to suspend said bottom elongated member,
- d) primary rotors at said top elongated support to wind or engage said primary lines,
- e) at least one secondary line having operative connection to said primary lines,
- f) and means acting on said secondary line or lines for counterbalancing suspension force exerted on said primary lines at different shade or blind height adjusted levels,
- g) said means including dual rotary members exerting tensioning force on said secondary line or lines,
- h) said means including a spring coupled to said dual rotary members and exerting force tending to entrain said secondary line or lines about said dual rotary members, for storage on at least one of the members,

i) said secondary line feeding between said members to assist in said spring exertion of force.

Claim 2 (original): The combination of claim 1 wherein the second line criss-crosses onto the second member in the form of a drum, for assisting spring exertion of force acting to hold the shade or blind in selected height position.

Claim 3 (original): The combination of claim 1 including additional rotors entrained by the primary line, to assist in counterbalancing the weight of the shade.

Claim 4 (original): The combination of claim 1 wherein said multiple primary rotors are pulleys in said upper support.

Claim 5 (original): The combination of claim 1 wherein as the spring is transferred from the rotary member A onto rotary member B, the secondary line unwinds from a rotary member and a primary line traversing across or over first and fourth pulleys and across or over third and second pulleys, then through an aperture in the

head rail to suspend the shade or blind, said pulleys defined by said primary rotors.

Claim 6 (currently amended): The combination of claim 5 wherein another primary traverses across or over first and fourth pulleys, and also across or over second and third pulleys, and then passes through an aperture in the head rail ~~and~~ to suspend the shade or blind, said primary lines having junction connection to said secondary line.

Claim 7 (currently amended): The combination of claim 1 wherein the cordless shade or blind is raised as one rotary member turns counterclockwise and as another rotary member turns clockwise, the spring being windingly transferred from ~~the~~ one rotary member to the other, one primary line traversing first and fourth pulleys, and then traversing second and third pulleys, to connect with the secondary line.

Claim 8 (original): The combination of claim 7 wherein the other primary line traverses said second and third pulleys and then traverses the first and fourth pulleys to connect with the secondary line, the secondary line

winding into secondary line collecting means at said rotary members.

Claim 9 (original): The assembly of claim 8 wherein said first, second, third and fourth pulleys are located in a row at a hollow head rail, whereby each primary line traverses the pulleys in a back and forth relation.

Claim 10 (original): The assembly of claim 9 wherein said upper elongated support protectively contains all of said pulleys, members and spring.

Claim 11 (original): The assembly of claim 1 wherein said primary lines have first terminals operatively connected to said lower elongated member, below said upper support.

Claim 12 (original): The assembly of claim 1 wherein said support is hollow to receive said rotors, said members, and said spring.

Claim 13 (original): The combination of claim 1 wherein said spring has S-shaped configuration.

Claim 14 (original): The combination of claim 1 wherein said spring winds in a clockwise direction about one of said rotary members, and in a counterclockwise direction about the other of said rotary members.

Claim 15 (original): The combination of claim 1 wherein said at least one rotary member has coaxial first and second surface portions, the spring winding about the first portion, and the secondary line winding about the second portion.

Claim 16 (original): The combination of claim 1 wherein each of the rotary members has coaxial first and second surface portions, the spring winding about the first portions and the secondary line or lines winding about the second portions.

Claim 17 (original): The combination of claim 5 including a housing, and posts in the housing supporting the rotary members for free rotation about axes defined by the posts.

Claim 18 (original): The combination of claim 6 including structure associated with the posts and rotary members, for axially positioning the rotary members in the housing.

Claim 19 (original): The combination of claim 6 wherein the housing is received in said upper elongated support which is a shade or blind head rail.

Claim 20 (original): A collapsible shade or blind assembly capable of height adjustment without use of pull cords, comprising, in combination:

- a) an upper elongated support,
- b) a lower elongated member that is manually adjustable up and down,
- c) primary lines extending through shade pleats or blind slats to suspend said bottom elongated member,
- d) primary rotors at said top elongated support to entrain said primary lines,
- e) one secondary line having operative connection to said primary lines,
- f) and means acting on said secondary line or lines for counterbalancing suspension force exerted on said primary lines at different shade or blind

height adjusted levels, said means including rotary structure entraining said secondary line, and a spring operatively connected to said rotary structure to coil and uncoil thereabout as shade or blind height changes.

Claim 21 (original): The combination of claim 20 wherein said spring has S-shaped configuration.

Claim 22 (original): The combination of claim 20 wherein said primary rotors include four rotors, each primary line entraining at least three of said rotors whereby multiple of said primary lines together entrain at least one rotor.

Claim 23 (original): A collapsible shade assembly capable of height adjustment without use of pull cords, comprising, in combination:

- a) an upper elongated support,
- b) a lower elongated member that is manually adjustable up and down,
- c) primary lines extending through or proximate the shade to suspend said bottom elongated member,
- d) primary rotors at said top elongated support to entrain said primary lines,

- e) at least one secondary line having operative connection to said primary lines,
- f) and means acting on said secondary line or lines for counterbalancing suspension force exerted on said primary lines at different shade height adjusted levels.

Claim 24 (original): The assembly of claim 23 wherein said means includes a rotary member exerting tensioning force on said secondary line or lines.

Claim 25 (original): The assembly of claim 23 wherein the number of said secondary line or lines is less than the number of said primary lines.

Claim 26 (original): The assembly of claim 24 wherein the number of said secondary line or lines is less than the number of said primary lines.

Claim 27 (original): The assembly of claim 23 wherein there is only one secondary line.

Claim 28 (original): The assembly of claim 24 wherein there is only one secondary line, and there are between 2 and 3 of said primary lines.

Claim 29 (original): The assembly of claim 24 wherein said means include a spring or springs acting to urge said rotary member in a direction tending to wind said secondary line or lines on said rotary member.

Claim 30 (original): The assembly of claim 29 wherein said upper elongated support defines a channel in which said primary rotor and said means are located.

Claim 31 (original): The assembly of claim 23 wherein said connection has a linear path of travel.

Claim 32 (original): The assembly of claim 31 wherein said primary rotors are pulleys.

Claim 33 (original): The assembly of claim 32 wherein said primary rotors include a first rotor having spacing from said means which exceeds said path of travel for shade height adjustment between uppermost and lowermost positions.

Claim 34 (original): The assembly of claim 33 wherein said primary rotors include at least one second rotor over which said primary lines are entrained, and said primary rotors include a third rotor in the form of a

pulley over which one of said primary lines is entrained, and a fourth rotor in the form of a pulley over which another of said primary lines is entrained.

Claim 35 (original): The assembly of claim 34 wherein said upper elongated support protectively contains all of said primary rotors and said tensioning means.

Claim 36 (original): The assembly of claim 23 wherein said primary lines have first terminals operatively connected to said lower elongated member, below said upper support.

Claim 37 (original): The assembly of claim 36 wherein said primary lines have second terminals operatively connected to said connection, within said upper support.

Claim 38 (original): The assembly of claim 31 including a guide rotor over which a section of said secondary line travels, said section located between said connection and said means, said guide rotor movable axially generally normal to said path of travel.

Claim 39 (original): The assembly of claim 23 wherein said means includes a roller device for retaining said secondary line in a selected position or positions corresponding to selected shade height adjustment.

Claim 40 (new): For use in operation of a pleated shade or Venetian blind assembly capable of height adjustment, the combination comprising:

- a) an upper elongated support,
- b) a lower elongated member that is manually adjustable up and down,
- c) primary lines extending through shade pleats or blind slats to suspend said bottom elongated member,
- d) pulleys at said top elongated support to entrain and wind or engage said primary lines,
- e) at least one secondary line having operative connection to said primary lines,
- f) one primary line traversing across or over first and fourth pulleys and across or over third and second pulleys, then downwardly to suspend the shade or blind.

Claim 41 (new): The combination of claim 40 wherein another primary line traverses across or over first and fourth pulleys, and also across or over second and third pulleys, and then passes downwardly to suspend the shade or blind, said primary lines having junction connection to said secondary line.

Claim 42 (new): The combination of claim 40 wherein the shade or blind is raised as one rotary member turns counterclockwise and as another rotary member turns clockwise, and a spring which is windingly transferred from one rotary member to the other.

Claim 43 (new): The combination of claim 42 wherein the other primary line traverses said second and third pulleys and then traverses the first and fourth pulleys to connect with the secondary line, the secondary line winding into secondary line collecting means at said rotary members.

Claim 44 (new): The assembly of claim 43 wherein said first, second, third and fourth pulleys are located in a row, whereby each primary line traverses the pulleys in a back and forth relation.

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Claim 45 (new): The assembly of claim 41 wherein an upper elongated support is provided to protectively contain all of said pulleys, and a spring tensioning said secondary line.

Claim 46 (new): The combination of claim 45 wherein said spring has S-shaped configuration, to wind about spring transfer members.